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END SECTION TO PIPE JOINT SHOWN AS TYPICAL:
HUB END ON OUTLET END SECTIONS;
SOCKET END ON INLET END SECTIONS
(SEE NOTE "A")

CONCRETE FLARED END SECTION

INSTALLATION: (D OVER 30")
CABLE, CHAIN, OR LIFTING PIN
WILL EXTEND THRU 1 1/4" HOLE WITH
A PLATE OR REBAR CONNECTED
INSIDE THE CONC. SECTION TO
PROVIDE ADEQUATE BEARING AREA
OR A LIFTING ASSEMBLY DEVICE
MAY BE USED TO GIVE 3 LIFT
POINTS. HOOKS CONNECTED
DIRECTLY TO CONCRETE IS NOT
PERMITTED. DAMAGE FROM
IMPROPER HANDLING SHALL
BE CAUSE FOR REJECTION.

PLAN

NOTE: DO NOT CUT CONCRETE PIPE. USE FULL LENGTH SECTIONS ONLY.
WARP SLOPE TO CONFORM WITH PIPE LENGTH AND END SECTION.

SECTION X-X

REINFORCING CAGE:
(1) WIRE FABRIC HAVING EQUAL STEEL AREA AS INNER CAGE FOR CLASS II PIPE, AASHTO M-170.
(2) ALTERNATE: # 3 BARS SPACED 12\"/>

SECTION Y-Y

SPECIAL NOTE:
FLARED END SECTIONS ARE NORMALLY LIMITED TO
USE OUTSIDE THE CLEAR ZONE OR BEHIND BARRIER AND
WHERE HYDRAULICS PERMIT. SEE OTHER STANDARDS OR
DETAILS FOR TAPERED HEADWALLS, SAFETY SLOPE END
SECTIONS OR OTHER PIPE END STRUCTURES.

METAL FLARED END SECTION
(USE ONLY WITH COR. METAL PIPE)

PLAN

NOTE: GALVANIZED STEEL FLARED END SECTIONS ARE TO BE USED
ONLY WITH CORRUGATED STEEL PIPE AND ALUMINUM FLARED
END SECTIONS ARE TO BE USED ONLY WITH CORRUGATED
ALUMINUM PIPE UNLESS OTHERWISE APPROVED BY D.O.T.
OFFICE OF MATERIALS AND TESTS.

FLARED END SECTION DIMENSIONS							
PIPE SIZE "D"	THICKNESS		A ± 0.4D ± 1"	B ± 0.5 D ± 1"	H H=0.25D ± 1" (MIN. 6")	L L=1.67D ± 1/2"	W W=2.0D ± 2"
	GALV. STEEL	ALUM.					
12"	.064"	.060"	5'	6'	6'	1'8"	2'0"
15"	.064"	.060"	6'	7'	6'	2'3"	2'6"
18"	.064"	.060"	7'	9'	6'	2'6"	3'0"
24"	.064"	.060"	9'	1'0"	6'	3'4"	4'0"
30"	.079"	.105"	1'0"	1'3"	7'	4'2"	5'0"
36"	.079"	.105"	1'2"	1'6"	9'	5'0"	6'0"
42"	.103"	.164"	1'5"	1'9"	10'	5'10"	7'0"

NOTE: WHERE METAL FLARED END SECTIONS ARE USED WITH MULTIPLE PIPE LINES, THE STANDARD SPACING
BETWEEN PIPES (S=D OR 3 FT.) MAY HAVE TO BE INCREASED (S=1.75 D TYPICAL), TO PREVENT OVER-
LAP OF END SECTION WINGTIPS. SEE ALSO STD. 1030D.

FRONT

NOTE "B":
THE CONNECTION BETWEEN METAL FLARED END SECTION AND C.M. PIPE WILL BE ONE OF THE
FOLLOWING:
(a) A STRAP BAND OR THREADED ROD PROVIDED BY THE MANUFACTURER WILL LOCK END SECTION
ONTO PIPE. A CORRUGATION AT THE PIPE AND WILL BE NON-SPIRALED (PERPENDICULAR
TO CL OF PIPE.)
(b) A DIMPLE BAND COLLAR WILL BE SHOP BOLTED TO END SECTION. PIPE WILL BE INSERTED
INTO BAND COLLAR TO MEET THE END SECTION.
(c) A STUB PIPE WILL BE RIVETED TO THE END SECTION AND THE MAIN PIPE CONNECTED TO
THE STUB WITH A NORMAL CONNECTING BAND.
(d) OTHER TYPE CONNECTION IF RECOMMENDED BY MANUFACTURER AND APPROVED BY THE
D.O.T.

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AS-BUILT PLANS 12/12/12

3/1/2007

6PLM

THE
LPA
GROUP

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No.
41-008